Technical datasheet

PMMA GS (cast polyamide)

Example of application
› Roofing, windbreak, covers, vacuum lid › Signage und displays › Housing, furniture › Decoration

Advantage	Disadvantages
› Visually appealing › Brilliant transparency › Mechanical resistance and good weatherproof › Scratch resistance	› Susceptibility to breakage › Susceptible to cleaning agents containing alcohol

Basic information	Specification
Format	**Sheets:** 3 – 6, 8, 10 ,12, 15, 20, 25, 30, 40, 45, 50 mm available in 2.03 m x 3.05 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.19	g/cm^3	DIN EN ISO 1183
Moisture ingress	0.2	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	75	N/mm^2	DIN EN ISO 527
Elongation at break	4	%	DIN EN ISO 527
E-module	3.210	N/mm^2	DIN EN ISO 178
Notch toughness	12	kJ/m^2	DIN EN ISO 179
Rockwellhardness	102	M-scale	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.19	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.7	$K^{-1}\cdot10^{-4}$	DIN 53752
	1.4	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, short-term	90	°C	
Max. operating temperature, long-term	80	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10^{15}	Ω·cm	DIN 53482
Outer surface coefficient	10^{14}	Ω	DIN 53482
Puncture resistance	n.sp.	kV/mm	DIN 53481

Legend
n.sp.= not specified

*Higher specification on request.

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transparent plastics

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